



has not been replaced. Please contact your customer care center for more information.

### Main

Range	TeSys
Product name	TeSys LRD
Device short name	LR9D
Product or component type	Electronic thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D50A LC1D38 LC1D25 LC1D40A LC1D80 LC1D65A LC1D115 LC1D95 LC1D32
Thermal overload class	Class 5...30
Thermal protection adjustment range	22...110 A
Maximum power consumption in W	300 mW
Mounting support	Plate Rail

### Complementary

[Ue] rated operational voltage	690 V for power circuit 660 V for signalling circuit
[Ui] rated insulation voltage	Power circuit: 1000 V Signalling circuit: 690 V
Tripping threshold	1.25 In conforming to IEC 60947-4-1
Control type	Red push-button: stop and manual reset White 2 microswitches: adjustable trip class Red knob: automatic reset White dial: full-load current adjustment
Time range	1.5...4 min - automatic reset time

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[I <sub>th</sub> ] conventional free air thermal current	5 A for signalling circuit
Associated fuse rating	5 A gG for signalling circuit 5 A BS for signalling circuit
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Phase difference > 40% 3 s conforming to IEC 60947-4-1
Electromagnetic compatibility	Surge withstand: 2 kV common mode conforming to IEC 61000-4-5 Resistance to electrostatic discharge: 8 kV conforming to IEC 61000-4-2 Immunity to radiated radio-electrical interference: 10 V/m conforming to IEC 61000-4-3 Immunity to fast transients: 2 kV conforming to IEC 61000-4-4
Connections - terminals	Control circuit: screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end Power circuit: screw clamp terminals 1 cable 50 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end
Tightening torque	Control circuit: 0.8 N.m on screw clamp terminals Power circuit: 9 N.m on screw clamp terminals
Height	107 mm
Width	65 mm
Depth	79.9 mm
Net weight	0.6 kg

## Environment

Standards	CSA C22.2 GB 14048.4 IEC 60947-4-1 UL 60947-4-1
Product certifications	TÜV CCC CULus CSA
IP degree of protection	IP20 front face conforming to IEC 60529 IP20 front face conforming to VDE 0106
Ambient air temperature for operation	-25...70 °C conforming to IEC 60255-8
Ambient air temperature for storage	-55...80 °C
Operating altitude	2000 m without derating
Mechanical robustness	Vibrations 10...150 Hz: 6 Gn conforming to IEC 60068-2-6 Shocks 11 ms: 15 gn conforming to IEC 60068-2-7
Dielectric strength	6 kV 50 Hz conforming to IEC 60255-5

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins